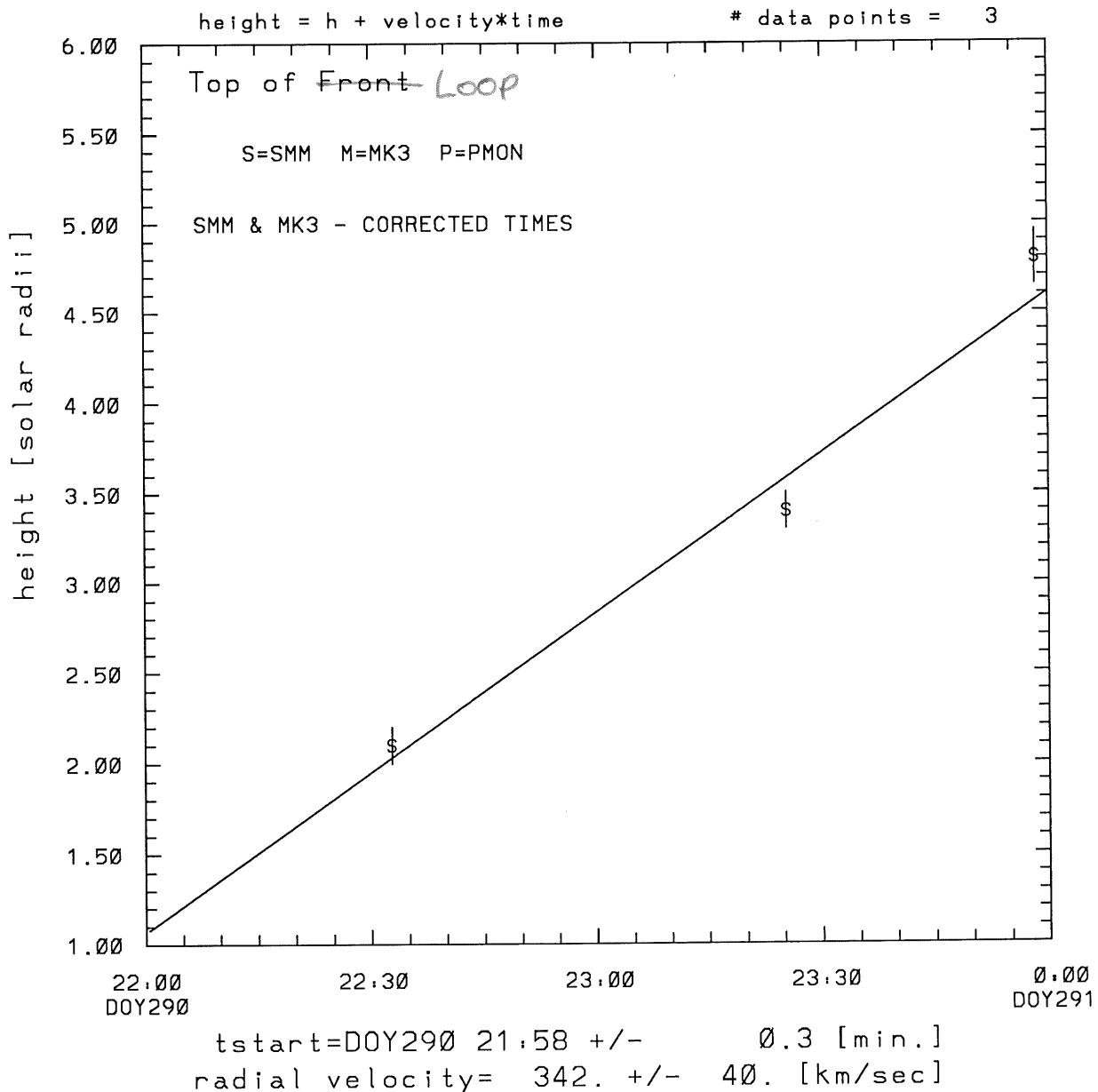
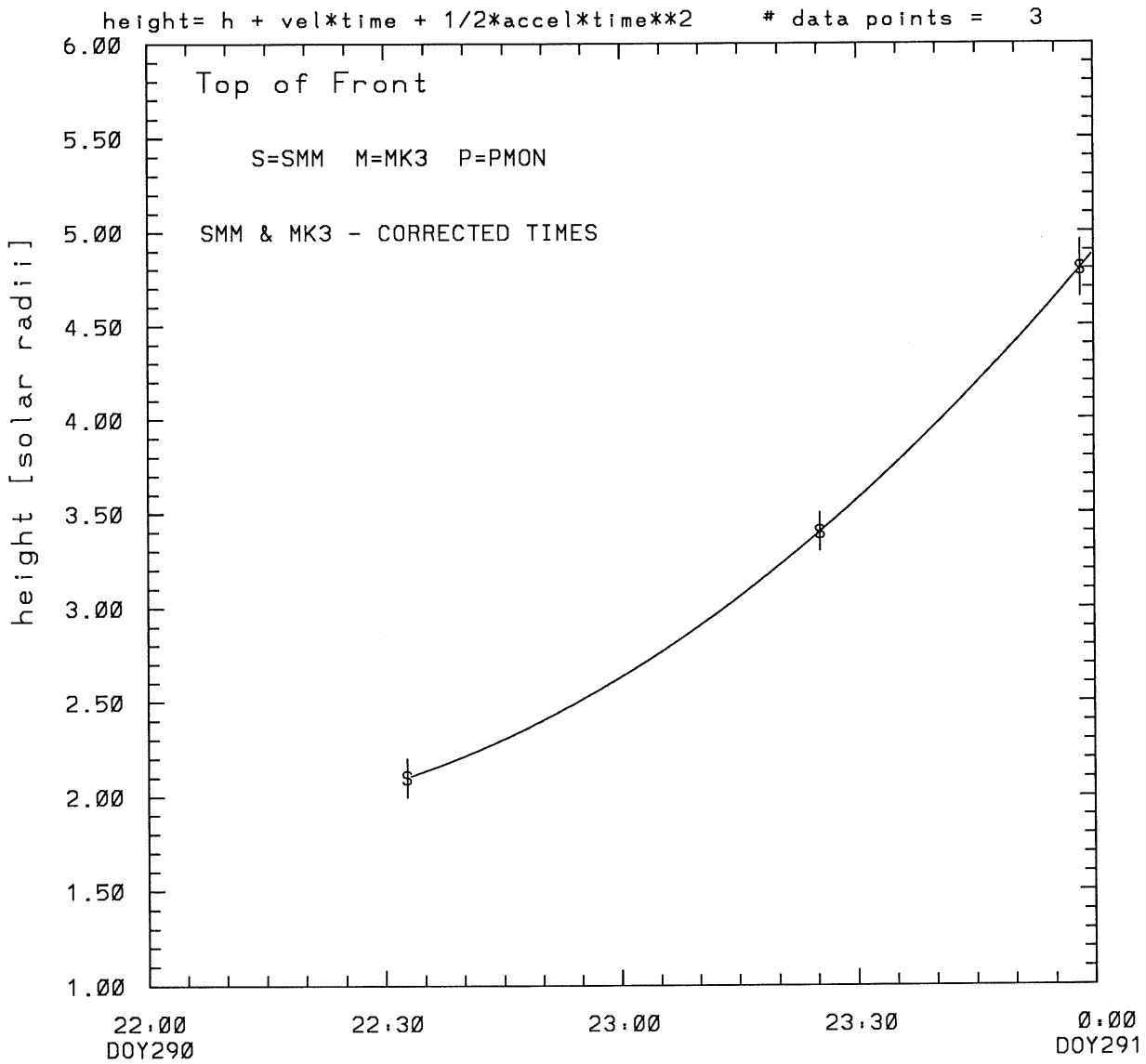


SMM C/P 1988 DOY290 283 +/- 0 degrees



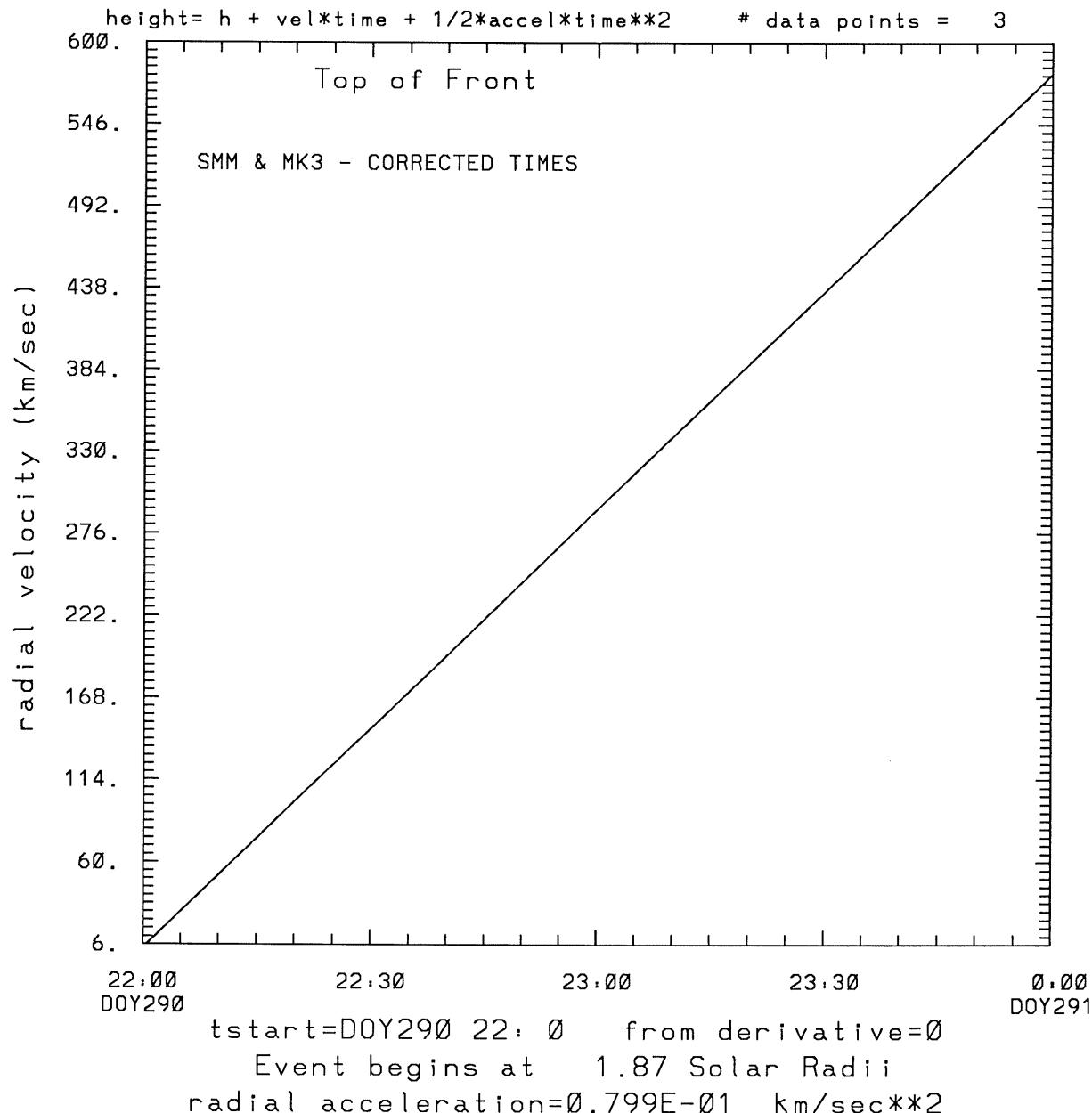


SMM C/P 1988 DOY290 283 +/- 0 degrees



tstart=DOY290 22: 0 from derivative=0  
Event begins at 1.87 Solar Radii  
radial acceleration= 0.0799 +/- 0.0000 [km/sec\*\*2]

SMM C/P 1988 DOY290 283 +/- 0 degrees



\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	290	22:32:43	2.10	+/- 0.10	283.0	+/- 0.5	SMM
1988	290	23:25:16	3.40	+/- 0.10	283.0	+/- 1.0	SMM
1988	290	23:58:16	4.80	+/- 0.15	283.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Front Loop

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.226E+01 +/- 0.324E+00 [minutes]

In more convenient units:

Event began at DOY 290 21:58 +/- 0.324E+00 [minutes]

Origin defined at DOY290 22: 0

RADIAL INFORMATION:

RADIAL VELOCITY = 342. +/- 40. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.107E+01 +/- 0.268E+00 [solar radii]  
c(2) = 0.295E-01 +/- 0.348E-02 [radii/min]  
c(2) = 0.342E+03 +/- 0.404E+02 [km/sec]  
c(3) = 0.000E+00 +/- 0.000E+00 [radii/min\*\*2]  
c(3) = 0.000E+00 +/- 0.000E+00 [km/sec\*\*2]

The computed ERRORS in coefficients [BEVINGTON] are:

error in c(1)= 0.44376E+00 [radii] see Bevington pg. 114

error in c(2)= 0.51438E-02 [radii/min] see Bevington pg. 114

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.0000E+00 +/- 0.0000E+00[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 283. +/- 0. [degrees]  
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]  
a(2) = 0.000E+00 +/- 0.000E+00 [rad/sec]  
a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min\*\*2]  
a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec\*\*2]

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:  
The TANGENTIAL velocity at 22:32 = 0. km/sec  
The TOTAL velocity at 22:32 = 342. km/sec

The TANGENTIAL velocity at 23:25 = 0. km/sec  
The TOTAL velocity at 23:25 = 342. km/sec

The TANGENTIAL velocity at 23:58 = 0. km/sec  
The TOTAL velocity at 23:58 = 342. km/sec

\*\*\*\*\*  
The following info is for estimating goodness of the fit  
\*\*\*\*\*

Fit is ok [ier=1]

Standard Deviation in the height = 1.35  
Standard Deviation in start time measurement = 0.352E+02  
Error in time = 0.10650E+02 using best fit method  
See Taylor Error Analysis [Univ of Colorado] pg.78

Value of reduced Chi Squared returned from nllst2 = 0.395E-01  
Reduced Chi Squared = 0.254E+00  
Chi Squared = 0.254E+00  
The probability for exceeding chi square = 0.843E+00

The correlation coefficient = 0.988E+00  
The probability that no LINEAR correlation exists between the variables = 0.9712E-01  
SEE BEVINGTON "Data Reduction and Error Analysis" [1969]

\*\*\*\*\*

This is a 2 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	290	22:32:43	2.10	+/- 0.10	283.0	+/- 0.5	SMM
1988	290	23:25:16	3.40	+/- 0.10	283.0	+/- 1.0	SMM
1988	290	23:58:16	4.80	+/- 0.15	283.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Front

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

tstart=DOY290 22: 0 from derivative = 0

Event begins at 1.87 Solar Radii

Origin defined at DOY290 22: 0

RADIAL INFORMATION:

RADIAL ACCELERATION = 0.799E-01 +/- 0.658E-06 km/sec\*\*2

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.187E+01 +/- 0.729E-05 [solar radii]  
c(2) = 0.348E-03 +/- 0.243E-06 [radii/min]  
c(2) = 0.403E+01 +/- 0.282E-02 [km/sec]  
c(3) = 0.207E-03 +/- 0.170E-08 [radii/min\*\*2]  
c(3) = 0.799E-01 +/- 0.658E-06 [km/sec\*\*2]

ANGULAR INFORMATION:

ANGULAR ACCELERATION= 0.0000E+00 +/- 0.0000E+00[radians/sec\*\*2]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 283. +/- 0. [degrees]  
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]  
a(2) = 0.000E+00 +/- 0.000E+00 [rad/sec]  
a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min\*\*2]  
a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec\*\*2]

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 22:32 = 0. km/sec

The TOTAL velocity at 22:32 = 161. km/sec

The TANGENTIAL velocity at 23:25 = 0. km/sec

The TOTAL velocity at 23:25 = 413. km/sec

The TANGENTIAL velocity at 23:58 = 0. km/sec

The TOTAL velocity at 23:58 = 571. km/sec

\*\*\*\*\*

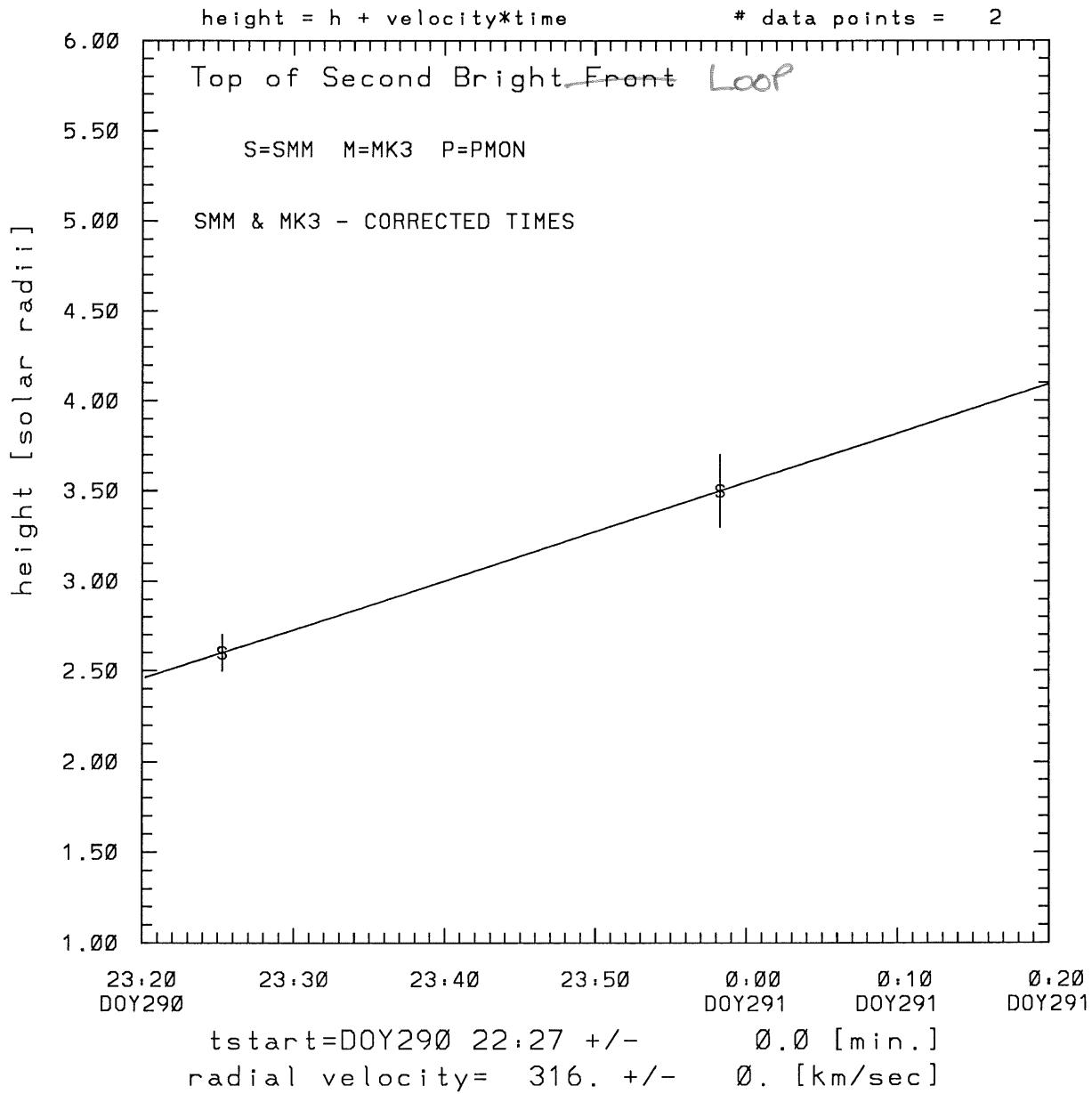
The following info is for estimating goodness of the fit

\*\*\*\*\*

Number data points = number of coefficients. No error analysis is possible.

Correlation coefficient is not computable!

SMM C/P 1988 DOY290 283 +/- 0 degrees



\*\*\*\*\*

This is a 1 order run

\*\*\*\*\*

\*\*\*\*\*

INPUT:

\*\*\*\*\*

year	doy	time	radii	radius	error in angle	error in angle	datatype
1988	290	23:25:16	2.60	+/- 0.10	283.0	+/- 1.0	SMM
1988	290	23:58:16	3.50	+/- 0.20	283.0	+/- 1.0	SMM

\*\*\*\*\*

Structure being measured:

Top of Second Bright Front - Loop

\*\*\*\*\*

\*\*\*\*\*

OUTPUT:

\*\*\*\*\*

START TIME:

Event began at t = 0 + -0.534E+02 +/- 0.000E+00 [minutes]

In more convenient units:

Event began at DOY 290 22:27 +/- 0.000E+00 [minutes]

Origin defined at DOY290 23:20

RADIAL INFORMATION:

RADIAL VELOCITY = 316. +/- 0. km/sec

The computed RADIAL coefficients and errors FROM NLLST2 are:

c(1) = 0.246E+01 +/- 0.321E-06 [solar radii]  
c(2) = 0.273E-01 +/- 0.181E-07 [radii/min]  
c(2) = 0.316E+03 +/- 0.210E-03 [km/sec]  
c(3) = 0.000E+00 +/- 0.000E+00 [radii/min\*\*2]  
c(3) = 0.000E+00 +/- 0.000E+00 [km/sec\*\*2]

ANGULAR INFORMATION:

ANGULAR VELOCITY = 0.0000E+00 +/- 0.0000E+00[radians/sec]

The computed ANGULAR coefficients and errors FROM NLLST2 are:

a(1) = 283. +/- 0. [degrees]  
a(2) = 0.000E+00 +/- 0.000E+00 [degrees/min]  
a(2) = 0.000E+00 +/- 0.000E+00 [rad/sec]  
a(3) = 0.000E+00 +/- 0.000E+00 [degrees/min\*\*2]  
a(3) = 0.000E+00 +/- 0.000E+00 [rad/sec\*\*2]

THE TANGENTIAL AND TOTAL VELOCITIES AT EACH DATA POINT ARE:

The TANGENTIAL velocity at 23:25 = 0. km/sec

The TOTAL velocity at 23:25 = 316. km/sec

The TANGENTIAL velocity at 23:58 = 0. km/sec

The TOTAL velocity at 23:58 = 316. km/sec

\*\*\*\*\*

The following info is for estimating goodness of the fit

\*\*\*\*\*

Number data points = number of coefficients. No error analysis is possible.

Correlation coefficient is not computable!